⑧ 區 千 〇 3120-F...Q1 switch only

Description

The 3120 switch serves for switching devices and machinery on or off. It is available in a range of design versions and meets the requirements of the relevant standard IEC/EN 61058 for switches for appliances. Type 3120 is also available as a circuit breaker for equipment protection in accordance with IEC/EN 60934 (see data sheet thermal circuit breaker 3120-F).

Product characteristics:

- rocker or push button actuation
- single pole and double pole versions
- convenient snap-in mounting
- international approvals

Optional:

- illumination
- water splash protection
- push-in terminals

Upon request:

Switch with undervoltage release module:

This version protects the user against bodily harm as an inadvertent start-up of machinery after a power failure is reliably excluded.

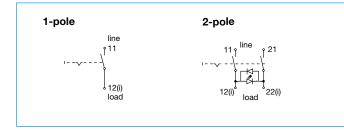
Typical applications

Medical and laboratory equipment, apparatus and machine construction, professional tools, household and garden appliances, offices machines, audio equipment, machine tools

Approvals

Approval authority	Standard	Voltage rating	Current rating	Approval logos
VDE	IEC/EN 61058	AC 240 V DC 50 V	16 (4) A 16 A:	
CQC	GB 17701	AC 240 V DC 50 V	16 (4) A 16 A	

Schematic diagrams



All information and data given on our products are accurate and reliable to the best of our knowledge, but E-T-A does not accept any responsibility for the use in applications which are not in accordance with the present specification. E-T-A reserves the right to change specifications at any time in the interest of improved design, performance and cost effectiveness, Dimensions are subject to change without notice. Please enquire for the latest dimensional drawing with tolerances if required. All dimensions, data, pictures and descriptions are for information only and are not binding. Amendments, errors and omissions excepted. Ordering codes of the products may differ from their marking.



Technical data

Voltage ratings		AC 240 V, DC 50 V	
Interrupting	capacity:		
AC 240 V: DC 50 V:	16 (4) A 16 A	25,000 switching cycles 50,000 switching cycles	
Ambient temperature		055 °C	
Insulation coordination (IEC 60664)		2.5 kV /2 reinforced insulation at operating area	
Dielectric st	rength		
Operating area Pole to pole (2-pole)		test voltage AC 3,000 V test voltage AC 1,500 V	
Insulation resistance		> 100 MΩ (DC 500 V)	
Degree of pr (IEC 60529) Operating are Terminal area	ea	IP40 with water splash cover IP54 or IP66 IP00 with water splash cover IP64	
Environment (IEC 60068)	al tests		
Vibration Shock Corrosion Humidity		8 g (57-500 Hz), ± 0.61 mm (10-57 Hz) 30 g (11 ms) 96 hours at 5 % salt mist 240 hrs in 95 % RH	
Mass		approx. 33 g (2-pole) approx. 27 g (1-pole) approx. 42 g (2-pole with PT terminals)	

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Туре No.	
3120 switch with rocker actuatio	n
Mounting	
F3 snap-in, mounting cut	
F5 snap-in, mounting cut	-out 44.5 x 22 mm
Number of poles	
0 2-pole	
6 1-pole	
Style	
1 standard	
3 with actuator gu	
	sh protection (IP54)
Terminal design	
PT push-in term	
N7 blade termin	
	nals 11 and 21 with additional flat
head screws	M3.5
Version	
Q1 switch c	
Actuato	
W rock	
	er colour/illumination
01.	
<u> </u>	white opaque without illumination red translucent with
14. K	LED illumination
10 P	green translucent with
13. 1	LED illumination
	Marking
D	Marking
F Q X	Q: 0 and 1 moulded in
	Illumination voltage range
	(= operating voltage)
	1 DC 12 V
	2 DC 24 V
	3 AC 115 V
	4 AC 230 V
	Current rating
	<u>16 A:</u>
3120 - F 5 0 4 - N7 Q1 - W01Q	- 16 A ordering example

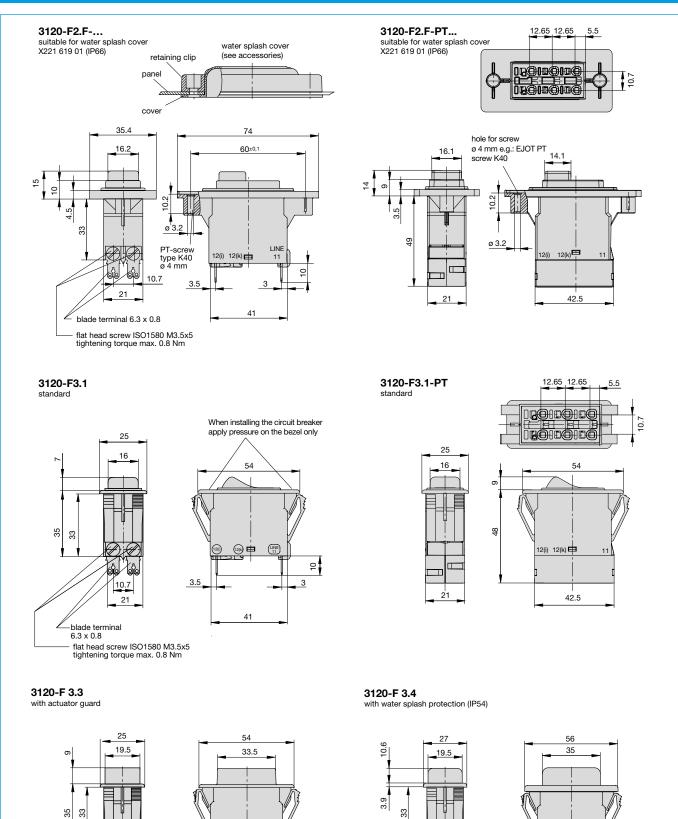
Order numbering code

Order numbering code

Type No.	tch with push button actuation			
	unting			
F2	flange mounting, mounting cut-out 50.5 x 26 mm,			
F2				
F3	suitable for water splash cover X221 619 01 (IP66)			
	snap-in, mounting cut-out 50.5 x 21.5 mm			
	Number of poles			
	0 2-pole 6 1-pole			
	Style			
	F frame with 2 push buttons			
	Terminal design			
	PT push-in terminals			
	N7 blade terminals 6.3 x 0.8			
	G7 as N7, terminals 11 and 21 with additional flat			
	head screws M3.5			
	Version			
	Q1 switch only			
	Actuator style			
	S two push buttons			
	Colour of push button/illumination			
	GRX green/red without illumination			
	GRXG green translucent with LED			
	illumination/red opaque without			
	illumination			
	Illumination voltage range			
	(= operating voltage)			
	1 DC 12 V			
	2 DC 24 V			
	3 AC 115 V			
	4 AC 230 V			
	Current rating			
	<u>16 A</u>			
120 - F 2	2 0 F - N7 Q1 - SGRX - 16 A ordering example			

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Dimensions



1

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21

blade terminal 6.3 x 0.8

flat head screw ISO1580 M3.5x5 tightening torque max. 0.8 Nm

10.7

3.5

de

41

LINE

9

216

3.5

10,7

21

blade terminal 6.3 x 0.8

flat head screw ISO1580 M3.5x5 tightening torque max. 0.8 Nm

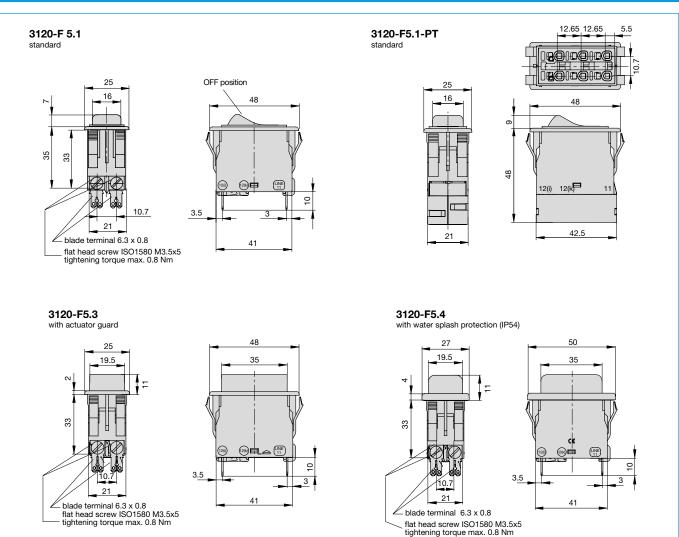
ċe

41

10

28**4**

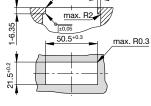
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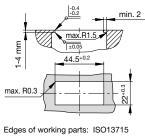
Dimensions

⑧ 區 ● ▲ 3120-F...Q1 switch only

3120-F2... t: metal min. 2 plastic min. 3 **Cut-out -F3 Cut-out -F3 Cut-out -F5**

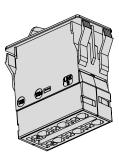


Cut-out dimensions

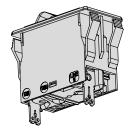


Terminal types

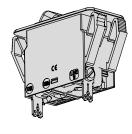
1-pole version 3120-F561-PT

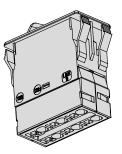


3120-F561-N7



3120-F361-G7

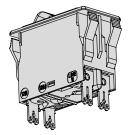




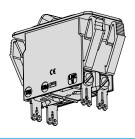
3120-F501-N7

2-pole version

3120-F501-PT

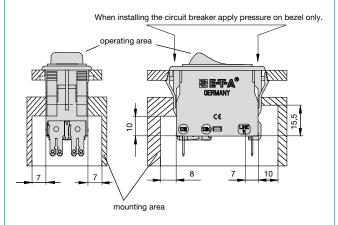


3120-F301-G7



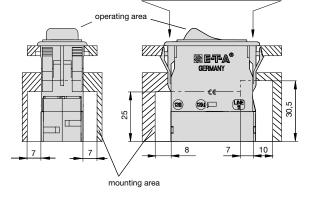
Installation drawing

3120 with blade terminals



3120 with push-in terminals



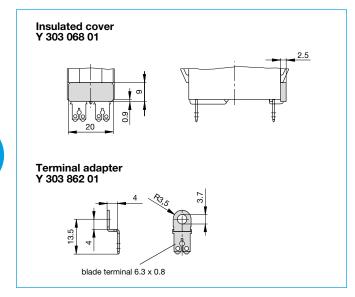


Cable cross sections PT terminals

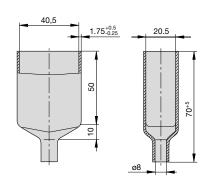
cable	cross section with direct push-in wiring
rigid	14 mm ² (stripping length: 10 mm)
flexible with wire end ferrule (with or without plastic sleeve)	0.52.5 mm ²
cable	cross section when opening the push-in terminals
rigid	0.54 mm ² (stripping length: 10 mm)
flexible without wire end ferrule	0.52.5 mm ²

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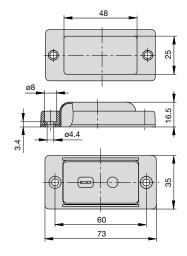
Accessories

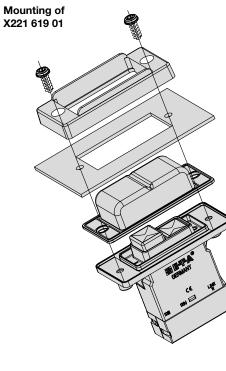


Rear terminal shroud black (IP64) Y 304 275 01



Water splash cover, transparent (IP66) for style -F2... X 221 619 01

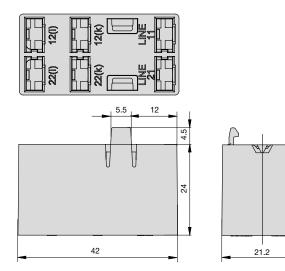


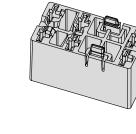


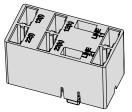
Accessories

Plug-in connector (for connection types N7 and G7) Y 31214001

Connecting cables can be pre-wired. Two retaining clips ensure a tight fit.







Benefits:

• Reduced installation time and costs for final assembly

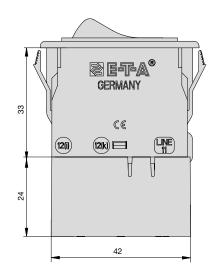
• Quick replacement of devices

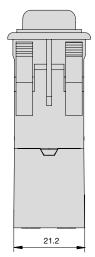
Note:

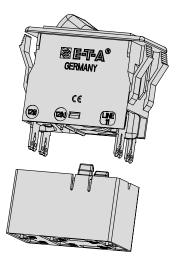
Delivery without receptacles.

Dimensions of receptacles (width 6.3 mm) are in accordance with DIN 46340 part 3, shape A. Examples of suitable receptacles: Stocko RSB 7916 F6,3-1 / Klaucke type 2730 / Vogt type 3832d.67 / TE FASTON Terminals 250 Series / Delphi Packard 58 Series

Plug-in connector mounted on circuit breaker:







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